ADDITIONAL SHEET

CCR# 04-0007 **Rev: —** **Originator:** Willard Selph
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Title of Change: Release of TE_6A.08_DPL.03A to NSIDC for installation.
CSG-

Please create an IRIX65 tar file from the 6A08EBF1 baseline:

The tar file will contain the following package:

.EcDlGLAS.pkg

Please call the tarfile: **TE_6A.08_DPL.03A**

It contains a fix for the following NCR:

NCR Number	Subsystem	Sev	State	Site	Description
ECSed38376	OPS_DPL	5	T	NSIDC	GLAS NOSE orbit file needs to be updated with 91 day repeat cycle tracks
ECSed38867	OPS_DPL	2	T	VATC	platInstrCode incorrect for GLAS DlDimensionPolygonXref 8+183 day

INSTALLATION:

The following provides the installation and configuration procedures to install TE_6A.08_DPL.03A.

PATCH/TE DEPENDENCIES:

1. The mode must be at minimum 6A.08 + 6A.08_System01 patch. This supercedes TE_6A.08_DPL.02

PRE-INSTALL:

1. Login to the staging host and create staging area.
2. Change to the platform staging directory:
   # cd /<staging_area>/IRIX65
3. Execute the setup script for both IRIX65: **./*Setup.ksh**
4. Open up the <Staging Area>/CUSTOM/dbms permissions
   cd <Staging Area>/CUSTOM
   chmod –R 755 dbms
5. Make sure that no GLAS data is being inserted into the DataPool.

INSTALL:

1. On any SUN host bring up E.A.S.I and select "**Full**" for install type.

2. Install the delivered package.

CONFIGURATION:

There are no configuration changes associated with this TE.

A. DATABASE UPDATES:

Truncate the DlDimensionPolygonXref and DlOrbitPolygons tables. Perform the following steps in the order indicated. Since another script will be run afterward on the host where the Data Pool database is located, you can go there now:
Login to the host where the Data Pool database package is installed (x0acg0n) as the appropriate working mode.

- This is accomplished with isql as follows:
- isql -U<dbo_id> -P<dbo_password> -S<sybase server>
- use DataPool<_Mode>
- go
- truncate table DlDimensionPolygonXref
- go
- truncate table DlOrbitPolygons
- go

B. Bulk Load the DlOrbitPolygons and DlDimensionPolygonXref tables (GLAS polygons at NSIDC only)
The DlOrbitPolygons table contains static orbit polygon reference data. (NOTE: This table is similar to the DsMdOrbitPolygons table in the Science Data Server database, and is loaded using a similar script.) The DlOrbitPolygons table will be bulk loaded from the DsDbGlasNoseData data file located in the /usr/ecs/<mode>/CUSTOM/dbms/DPL directory.

The DlDimensionPolygonXref table contains static cross reference information between theDlOrbitPolygons and DlDimensionSpatial tables. This table is bulk loaded from the DlDimensionPolygonXrefGLAS.dat data file located in the /usr/ecs/<mode>/CUSTOM/dbms/DPL directory.

The DlOrbitPolygons and DlDimensionXref tables are loaded by running the DlDbSqsBcpOrbitPolygon script, also located in the /usr/ecs/<mode>/CUSTOM/dbms/DPL directory. Sybase System Administrator (sa) privileges are required to run the script, because the script runs the SQS BCP executable.

(a) To run the script (on the host where the Data Pool database package is installed, i.e., x0acg0n):

- **cd /usr/ecs/<mode>/CUSTOM/dbms/DPL**

- Verify that all environment variables defined in DlDbSqsBcpOrbitPolygonEnv.ksh are correct for your environment (e.g., license file for sqs). If not, edit the file manually to make the necessary corrections.
- **DlDbSqsBcpOrbitPolygon**
- Enter database name**: DataPool[_<mode>]**
- Enter sybase user**: <dbo id>**
- Enter sybase password**: <dbo password>**
- Enter user sa: **<Sybase sa id>**
- Enter sa password**: <sa password>**
- Enter sybase server**: <sybase server name where Data Pool database resides>**
- Enter sybase SQS server**: <sqs server name>**
- Enter absolute path for sqsbcp executable**: /usr/ecs/OPS/COTS/sqs_342/bin**
  (Check to be sure that the sqsbcp executable is in this directory at your site)
- Enter the mode to be installed: **<MODE>**
- In order to install new data, it may be necessary to delete
- some old data first. Below is a list of instruments that
- currently have orbit polygon data installed.
-
- (NOTE: this list will be blank for the initial database install)
-
-
- Please enter the number of the instrument(s) you wish to delete
- orbit polygon data for. Please separate each number by a space.
- Type 0 to select all instruments or ENTER for none.
-
- Your choices, please: **(Choose the correct number for GLAS)**
-
- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbGlasNoseData**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbGlasNoseData.91day**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbAmsrNoseDataAscending**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbAmsrNoseDataDescending**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbAdeosNoseDataAscending**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

- Enter path/name of bcp data file (Q to quit):
  Enter **/usr/ecs/<mode>/CUSTOM/dbms/DPL/DsDbAdeosNoseDataDescending**

  The bulk copy will now take place. When it completes, you will be see a 'Done' message, and then the 'Enter path/name of bcp data file (Q to quit)' prompt.

Type "Q" to quit.

The script will now begin the second half of the dbms update.

- Enter path/name of bcp datafile which populates the DlDimensionPolygonXref table (Q to quit):

  Enter/**usr/ecs/<mode>/CUSTOM/dbms/DPL/DlDimensionPolygonXrefGLAS.dat**

  The bulk copy will now take place. As it executes, a series of 'Batch Successfully bulk-copied to SQL server…' messages will appear. **NOTE: This process may take several hours to complete.** When the bulk copy is complete, you will see the following prompt:

- Enter path/name of bcp datafile which populates the DlDimensionPolygonXref table (Q to quit):
  Enter
  /usr/ecs/<mode>/CUSTOM/dbms/DPL/DlDimensionPolygonXrefGLAS91.dat

  The bulk copy will now take place. As it executes, a series of 'Batch Successfully bulk-copied to SQL server…' messages will appear. **NOTE: This process may take several hours to complete.** When the bulk copy is complete, you will see the following prompt:

- Enter path/name of bcp datafile which populates the DlDimensionPolygonXref table (Q to quit):

  Enter/**usr/ecs/<mode>/CUSTOM/dbms/DPL/DlDimensionPolygonXrefAMSR.dat**

  The bulk copy will now take place. As it executes, a series of 'Batch Successfully bulk-copied to SQL server…' messages will appear. **NOTE: This process may take several hours to complete.** When the bulk copy is complete, you will see the following prompt:

  Type "Q" to quit.

C. Verification

(a) Verify that the old GLAS rows have been removed from the DlOrbitPolygons and DlDimensionPolygonXref tables and the new rows have been added.

isql -S <server_name> -U <db_user_name> -P <db_user_password>
use DataPool [_<MODE>]
go

```
select count(1) from DlDimensionPolygonXref where platInstrCode =
3
go
----------
1573673

AMSR
select count(1) from DlDimensionPolygonXref where platInstrCode =
2
go
----------
2669040

ADEOS
select count(1) from DlDimensionPolygonXref where platInstrCode =
4
go
----------
2380742

GLAS
select count(1) from DlOrbitPolygons where platInstrCode = 3
go
```

```
----------
347988

AMSR
select count(1) from DlOrbitPolygons where platInstrCode = 2
go
----------
12978

ADEOS
select count(1) from DlOrbitPolygons where platInstrCode = 4
go
----------
12978
```

Quit

POST INSTALL:

There are no post install instructions.